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- 1 [Principle for high speed network control: congestion-and deadlock-freeness, self-routing, and a single buffer per link](#)

Yoram Ofek, Moti Yung

 August 1990 **Proceedings of the ninth annual ACM symposium on Principles of distributed computing**
Full text available: [pdf\(1.50 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 2 [Symmetric bimanual interaction](#)

Ravin Balakrishnan, Ken Hinckley

 April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: [pdf\(889.60 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present experimental work that explores the factors governing symmetric bimanual interaction in a two-handed task that requires the user to track a pair of targets, one target with each hand. A symmetric bimanual task is a two-handed task in which each hand is assigned an identical role. In this context, we explore three main experimental factors. We vary the *distance* between the pair of targets to track: as the targets become further apart, visual diversion increases, forcing the u ...

Keywords: Guiard theory, input, interaction techniques, symmetric interaction, two-handed input

- 3 [TCP/IP performance with random loss and bidirectional congestion](#)

T. V. Lakshman, Upamanyu Madhow, Bernhard Suter


 October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5
Full text available: [pdf\(287.04 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)


Keywords: ADSL, TCP, buffer management, cable modems, scheduling

- 4 [Supporting the hypercube programming model on mesh architectures: \(a fast sorter for iWarp tori\)](#)

Thomas M. Stricker


 June 1992 **Proceedings of the fourth annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(1.11 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 5 [Flow profile comparison of a microscopic car-following model and a macroscopic platoon dispersion model for traffic simulation](#) 


Donald T. Gantz, James R. Mekemson

December 1990 **Proceedings of the 22nd conference on Winter simulation**Full text available:  [pdf\(424.89 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 6 [Factoring a mobile client's effective processing speed into the image transcoding decision](#) 

Richard Han


August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**Full text available:  [pdf\(897.48 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** CPU, PDA, image processing, mobile, partitioning, proxy, transcoding

- 7 [Formally reviewed communication: Memory cache and lisp: faster list processing via automatically rearranging memory](#) 

Richard Fateman

December 2003 **ACM SIGSAM Bulletin**, Volume 37 Issue 4Full text available:  [pdf\(67.95 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

The speed of modern computers can be increased by organizing computations so that memory access patterns correspond more closely to the memory cache-loading patterns implemented in the hardware. Rearranging code and data are each possible. Here we concentrate on automatic rearrangement of data, and examine the belief, common in some technical circles, that modern generational copying garbage collectors (GC) will improve data caching by relocating and compressing data, as a matter of normal proce ...


- 8 [Extending hypertext streaming protocol to realize effective web page transmission via a caching proxy](#) 

Tadashi Nakano, Kaname Harumoto, Shinji Shimojo, Shojiro Nishio

March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**Full text available:  [pdf\(335.37 KB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** HTSP, WWW, inline object, transmission order control caching proxy

- 9 [Modeling the performance of HTTP over several transport protocols](#) 

John Heidemann, Katia Obraczka, Joe Touch

October 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 5Full text available:  [pdf\(388.85 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** HTTP, TCP, computer protocol performance, internetworking

10 On the characteristics and origins of internet flow rates


Yin Zhang, Lee Breslau, Vern Paxson, Scott Shenker

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4Full text available:  [pdf\(698.66 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper considers the distribution of the rates at which flows transmit data, and the causes of these rates. First, using packet level traces from several Internet links, and summary flow statistics from an ISP backbone, we examine Internet flow rates and the relationship between the rate and other flow characteristics such as size and duration. We find, as have others, that while the distribution of flow rates is skewed, it is not as highly skewed as the distribution of flow sizes. We also f ...

Keywords: TCP, flow rates, network measurement**11** Register windows vs. register allocation

D. W. Wall

June 1988 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1988 conference on Programming Language design and Implementation**, Volume 23 Issue 7Full text available:  [pdf\(1.27 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A large register set can be exploited by keeping variables and constants in registers instead of in memory. Hardware register windows and compile-time or link-time global register allocation are ways to do this. A measure of the effectiveness of any of these register management schemes is how thoroughly they remove loads and stores. This measure must also count extra loads and stores executed because of window overflow or conflicts between procedures. By combining profiling, inst ...

12 Best poster papers from MobiHoc 2002: An on-demand minimum energy routing protocol for a wireless ad hoc network

Sheetalkumar Doshi, Shweta Bhandare, Timothy X Brown

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3Full text available:  [pdf\(203.93 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A minimum energy routing protocol reduces the energy consumption of the nodes in a wireless ad hoc network by routing packets on routes that consume the minimum amount of energy to get the packets to their destination. This paper identifies the necessary features of an *on-demand* minimum energy routing protocol and suggests mechanisms for their implementation. We highlight the importance of efficient caching techniques to store the minimum energy route information and propose the use of an ...


13 Tree multicast strategies in mobile, multishop wireless networks

Mario Gerla, Ching-Chuan Chiang, Lixia Zhang

October 1999 **Mobile Networks and Applications**, Volume 4 Issue 3Full text available:  [pdf\(285.79 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tree multicast is a well established concept in wired networks. Two versions, per-source tree multicast (e.g., DVMRP) and shared tree multicast (e.g., Core Based Tree), account for the majority of the wireline implementations. In this paper, we extend the tree multicast concept to wireless, mobile, multihop networks for applications ranging from ad hoc networking to disaster recovery and battlefield. The main challenge in wireless, mobile networks is the rapidly changing environment. We add ...

MagPie: MPI's collective communication operations for clustered wide area systems
 Thilo Kielmann, Rutger F. H. Hofman, Henri E. Bal, Aske Plaat, Raoul A. F. Bhoedjang
 May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN
 symposium on Principles and practice of parallel programming**, Volume 34 Issue
 8

Full text available:  [pdf\(1.36 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Writing parallel applications for computational grids is a challenging task. To achieve good performance, algorithms designed for local area networks must be adapted to the differences in link speeds. An important class of algorithms are collective operations, such as broadcast and reduce. We have developed MAGPIE, a library of collective communication operations optimized for wide area systems. MAGPIE's algorithms send the minimal amount of data over the slow ...

15 Reconciling responsiveness with performance in pure object-oriented languages

Urs Hölzle, David Ungar
 July 1996 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
 Volume 18 Issue 4

Full text available:  [pdf\(537.19 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Dynamically dispatched calls often limit the performance of object-oriented programs, since object-oriented programming encourages factoring code into small, reusable units, thereby increasing the frequency of these expensive operations. Frequent calls not only slow down execution with the dispatch overhead per se, but more importantly they hinder optimization by limiting the range and effectiveness of standard global optimizations. In particular, dynamically dispatched calls prevent stand ...

Keywords: adaptive optimization, pause clustering, profile-based optimization, run-time compilation, type feedback

16 On characterizing bandwidth requirements of parallel applications

Anand Sivasubramaniam, Aman Singla, Umakishore Ramachandran, H. Venkateswaran
 May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995
 ACM SIGMETRICS joint international conference on Measurement and
 modeling of computer systems**, Volume 23 Issue 1

Full text available:  [pdf\(1.15 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Synthesizing architectural requirements from an application viewpoint can help in making important architectural design decisions towards building large scale parallel machines. In this paper, we quantify the link bandwidth requirement on a binary hypercube topology for a set of five parallel applications. We use an execution-driven simulator called SPASM to collect data points for system sizes that are feasible to be simulated. These data points are then used in a regression analysis for projec ...

17 Papers: Return link optimization for internet service provision using DVB-S networks

Nihal K. G. Samaraweera
 July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Full text available:  [pdf\(1.07 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


Satellite based Digital Video Broadcasting (DVB-S) allows the same low cost satellite dish to receive both television programs and Internet traffic. The satellite system is used to construct a high-speed simplex distribution system, while the return path, needed for the Internet service will be provided using a low speed terrestrial network. The bandwidth asymmetry between the return and forward paths results in a problem, which we have termed "ACK congestion". A number of techniques that may al ...

Virtual path bandwidth allocation in multiuser networks

Aurel A. Lazar, Ariel Orda, Dimitrios E. Pendarakis

December 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 6Full text available:  pdf(324.16 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Nash equilibrium, bandwidth allocation, distributed algorithms, game theory, network control, virtual path**19** Algorithms: Bitmap algorithms for counting active flows on high speed links

Cristian Estan, George Varghese, Mike Fisk

October 2003 **Proceedings of the 2003 ACM SIGCOMM conference on Internet measurement**Full text available:  pdf(330.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high speed link. Such counting can be used to detect DoS attacks and port scans, and to solve measurement problems. Counting is especially hard when processing must be done within a packet arrival time (8 nsec at OC-768 speeds) and, hence, must require only a small number of accesses to limited, fast memory. A naive solution that maintains a hash table r ...

Keywords: counting flows, network traffic measurement**20** Multimedia Web services for mobile clients using quality aware transcoding

Surendar Chandra, Carla Schlatter Ellis, Amin Vahdat

August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia**Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Vehicular Technology Conference, 2003. VTC 2003-Fall. 2003 IEEE 58th , Volume: 1 , 6-9 Oct. 2003

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2 Field experiments on closed loop mode transmit diversity in W-CDMA forward link

Fukumoto, S.; Higuchi, K.; Sawahashi, M.; Adachi, F.;

Spread Spectrum Techniques and Applications, 2000 IEEE Sixth International Symposium on , Volume: 2 , 6-8 Sept. 2000

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3 Broadband packet wireless access incorporating high-speed IP packet transmission

Abeta, S.; Atarashi, H.; Sawahashi, M.;

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4 Successive interference cancellation for multiuser asynchronous DS/CDMA detectors in multipath fading links

Hui, A.L.C.; Letaief, K.B.;

Communications, IEEE Transactions on , Volume: 46 , Issue: 3 , March 1998

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5 A multiuser interference cancellation technique utilizing convolutional codes and orthogonal multicarrier modulation for wireless indoor communications

Sanada, Y.; Nakagawa, M.;

Selected Areas in Communications, IEEE Journal on , Volume: 14 , Issue: 8 , Oct. 1996

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6 Oxygenation of silver clad $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$

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Magnetics, IEEE Transactions on , Volume: 27 , Issue: 2 , Mar 1991

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8 Performance comparison of cdma2000 forward power control modes

Yeh, J.; Khan, A.; Aydin, L.; Hamdy, W.;

Personal, Indoor and Mobile Radio Communications, 2003. PIMRC 2003. 14th IEEE Proceedings on , Volume: 2 , 7-10 Sept. 2003

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10 Datagram-transfer protocol for UHF SATCOM

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MILCOM 2000. 21st Century Military Communications Conference Proceedings , Volume: 2 , 22-25 Oct. 2000

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Liang Dong; Teng Li; Yih-Fang Huang;

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13 TCP over wireless links with variable bandwidth

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Pursley, J.A.; Macdonald, T.G.;

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Transparent Optical Networks, 2001. Proceedings of 2001 3rd International Conference on , 18-21 June 2001

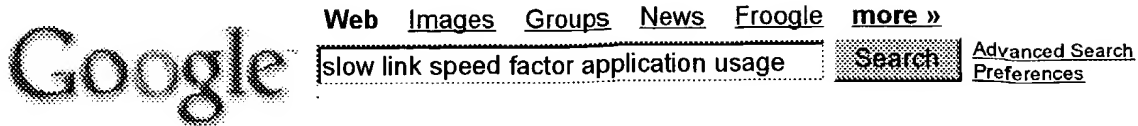
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